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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/752,199	12/29/2000	Dean Throop	40921/250098 8124		
26108 7	04/01/2005	EXAMINER			
	ANIELS & VERDONIK, ENERATION PLAZA	SCHNEIDER, JOSHUA D			
	SHWAY 54 EAST	ART UNIT	PAPER NUMBER		
DURHAM, N	C 27713	2182			
			DATE MAILED 04/01/200	DATE MAIL ED. 04/01/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application I	lication No. Applicant(s)					
Office Action Summary		09/752,199		THROOP, DEAN				
		Examiner		Art Unit				
		Joshua D Sch		2182				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠	1) Responsive to communication(s) filed on 18 January 2005.							
2a)□	This action is FINAL . 2b)⊠ This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5)□ 6)⊠ 7)□	<u> </u>							
Application	on Papers							
9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	',		Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152) Other:				

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-23 have been considered but are moot in 1. view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claims 2 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite 3. for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. With regards to claims 2 and 14, Applicant claims structuring the field of the SCSI request in a manner substantially the same as a direct SCSI request. It is unclear to what the limitation substantially refers. It would seem that it is more than just maintaining the structure of the SCSI protocol, as that is a minimal requirement of calling the request a SCSI request.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,470,382 to Wang et al.

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With regards to claims 1 and 13, Wang teaches the a method of transmitting requests to a target device, comprising: establishing a direct IP connection between a computer system and a target device (column 6, lines 31-52); encoding a SCSI request with a tag identifying the request as a SCSI request (column 19, lines 1-12), and structuring the request with a request IP/ID (column 2, lines 39-49, and column 10, lines 38-64); sending the tagged SCSI request to the target device (column 11, line 10, through column 12, line 26); returning the request IP/ID of the SCSI request from the target device to the computer system (column 11, line 10, through column 12, line 26). Wang does not explicitly teach the use of the TCP/IP protocol. It would have been obvious to one of ordinary skill in the art at the time of invention to use the TCP/IP protocol as the IP protocol with the system of Wang in order to increase compatibility with the wide variety of machines that are currently enabled to use well known TCP/IP protocol.

- 8. With regards to claims 2 and 14, Wang teaches structuring the field of the SCSI request in a manner substantially the same as a direct SCSI request from a host system to a target device (column 2, lines 39-49).
- 9. With regards to claims 6, 8, 17, and 19, Wang teaches the target device is a storage system (column 1, lines 14-18).
- 10. With regards to claims 7, 9, 18, 20, and 23, Wang teaches a server connected to the storage system through SCSI cable, a workstation connected to the server, and further comprising the workstation directly connected to the storage system for establishing the IP connection with the storage system (Figs. 3A-C). Wang teaches server client relationship establishment (column 11, line 10, through column 12, line 26). This relationship is also inherent to the connection establishment under the TCP portion of the TCP/IP protocol. It would

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have been obvious to one of ordinary skill in the art at the time of invention to use the TCP/IP protocol as the IP protocol with the system of Wang in order to increase compatibility with the wide variety of machines that are currently enabled to use well known TCP/IP protocol.

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- 11. With regards to claims 10 and 21, Wang does not explicitly teach denying a connection from the workstation to the target device if a request from the workstation does not include a recognized IP/ID, but such a denial is inherent to TCP/IP. It would have been obvious to one of ordinary skill in the art at the time of invention to use the TCP/IP protocol as the IP protocol with the system of Wang in order to increase compatibility with the wide variety of machines that are currently enabled to use well known TCP/IP protocol.
- With regards to claims 11 and 22, Wang does not explicitly teach denying a connection from the computer system to the target device if the time for reading a completed message exceeds a predetermined amount of time, but such a denial is inherent to TCP/IP. It would have been obvious to one of ordinary skill in the art at the time of invention to use the TCP/IP protocol as the IP protocol with the system of Wang in order to increase compatibility with the wide variety of machines that are currently enabled to use well known TCP/IP protocol.
- 13. With regards to claim 12, Wang teaches a direct connection is established on a network separate from a SCSI cable connection between the host system and the target device (column 11, line 10, through column 12, line 26).

14.

15. With regards to claims 3 and 15, Wang does not explicitly teach sending SCSI request over an Ethernet connection using the TCP/IP protocol and the encoding including a data buffer containing data to allow the target device to read the data buffer using the established TCP/IP

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connection. However, it was notoriously well known in the art at the time of invention that receive and transmit buffers were used in popular commercially available Ethernet chips used to implement the LAN and IP environments taught by Wang. It would have been obvious to one of ordinary skill in the art to use transmit and receive Ethernet buffering to facilitate SCSI transfers over a TCP/IP protocol.

- 16. With regards to claim 4, Wang does not explicitly teach sending SCSI request over an Ethernet connection using the TCP/IP protocol and sending the data in conjunction with the SCSI request in a manner substantially different from direct SCSI requests from a host system to a target device, and which allows the host system to supply the data buffer without an explicit request from the target system, whereby the target system is allowed to receive the data immediately following the request without having to make an explicit request to obtain the data buffer. However, it was notoriously well known in the art at the time of invention that receive and transmit buffers were used in popular commercially available Ethernet chips. It would have been obvious to one of ordinary skill in the art to use transmit and receive Ethernet buffering to facilitate SCSI transfers over a TCP/IP protocol.
- 17. With regards to claims 5 and 16, Wang does not explicitly teach sending SCSI request over an Ethernet connection using the TCP/IP protocol and returning a data buffer generated by the target device to the workstation using the established TCP/IP connection. However, it was notoriously well known in the art at the time of invention that receive and transmit buffers were used in popular commercially available Ethernet chips. It would have been obvious to one of ordinary skill in the art to use transmit and receive Ethernet buffering to facilitate SCSI transfers over a TCP/IP protocol.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua D Schneider whose telephone number is (571) 272-4158. The examiner can normally be reached on M-F, 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A Gaffin can be reached on (571) 272-4146. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JDS

JEFFREY GAFFIN

JPENVISONY POPENT EXAMINER